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United States Department of Agriculture,

WASHINGTON, D. C., *March 31, 1914.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1914]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of publications listed herein will be sent free upon application to the Editor and Chief, Division of Publications, Department of Agriculture, Washington, D. C., as long as the supply lasts.

When this department's supply is exhausted publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

REPORTS.

Annual Reports of the Department of Agriculture for the year ended June 30, 1913. (Report of the Secretary, with Reports of Heads of the Several Branches of the Department.) Pp. 370. Price, 40 cents. The department's supply of this publication is exhausted.

Annual Report of the Hawaii Agricultural Experiment Station for 1913. Pp. 53, pls. 3. Mar. 16, 1914. Price, 10 cents.

SERIALS.

Journal of Agricultural Research, Vol. 1, No. 6. March, 1914. Contents: Tyloses: Their Occurrence and Practical Significance in Some American Woods. By Eloise Gerry.—The Cambium Miner in River Birch. By Charles T. Greene.—A Study of Some Imperfect Fungi Isolated from Wheat, Oat, and Barley Plants. By Edward C. Johnson.—The Origin of Some of the Streptococci Found in Milk. By L. A. Rogers and Arnold O. Dahlberg.—Crystallization of Cream of Tartar in the Fruit of Grapes. By William B. Alwood.—The Reduction of Arsenic Acid to Arsenious Acid by Thiosulphuric Acid. By Robert M. Chapin.—Title-page, Contents, and Index of Volume I. Pp. 455-533+i-xiv, pls. 52-63, figs. 8. Price 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The superintendent of documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXX, No. 1, January, 1914. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The superintendent of documents has fixed the price of this serial, which is now issued in two volumes a year, ten numbers each, at \$1 a volume.

SERVICE AND REGULATORY ANNOUNCEMENTS.

NOTE.—Contain information, instructions, and notices of a regulatory nature. Issued monthly by certain Bureaus. Free distribution limited to individuals, firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, at 5 cents each.

Bureau of Animal Industry. February, 1914. Pp. 19-30.

Federal Horticultural Board. January-February, 1914. Pp. 8.

Insecticide and Fungicide Board. February, 1914. Pp. 24.

SOIL SURVEYS.

Soil Survey of Ashley County, Arkansas. By E. S. Vanatta, B. D. Gilbert, E. B. Watson, and A. H. Meyer. Pp. 39, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of the Fresno Area, California. By A. T. Strahorn, J. W. Nelson, L. C. Holmes, and E. C. Eckmann. Pp. 82, pls. 4, fig. 1, maps, 2. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Christian County, Kentucky. By Ridsen T. Allen and T. M. Bushnell. Pp. 34, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Genesee County, Michigan. By B. D. Gilbert. Pp. 39, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Lafayette County, Mississippi. By A. L. Goodman, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 28, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Reconnaissance of the Ozark Region of Missouri and Arkansas. By Curtis F. Marbut. Pp. 153, figs. 3, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of the Middle Rio Grande Valley Area, New Mexico. By J. W. Nelson, L. C. Holmes, and E. C. Eckman. Pp. 52, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Ashe County, North Carolina. By R. B. Hardison, of the U. S. Department of Agriculture, and S. O. Perkins, of the North Carolina Department of Agriculture. Pp. 32, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Lehigh County, Pennsylvania. By William T. Caster, Jr., and J. A. Kerr. Pp. 53, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Barnwell County, South Carolina. By William T. Carter, Jr., Ridsen T. Allen, J. E. Lapham, Floyd S. Bucher, and J. H. Agee. Pp. 49, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Putnam County, Tennessee. By C. S. Waldrop. Pp. 32, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Robertson County, Tennessee. By J. H. Agee, Lewis A. Hurst, and H. Jennings, of the U. S. Department of Agriculture, and R. F. Rogers, of the Tennessee Geological Survey. Pp. 26, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Archer County, Texas. By Arthur E. Taylor, Clarence Lounsbury, J. O. Veatch, and Ewing Scott. Pp. 52, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

BULLETINS.

Balsam Fir. By Raphael Zon, Chief of Forest Investigations. Pp. 68, pls. 2, figs. 8. Contribution from the Forest Service. (Professional Paper.) Mar. 25, 1914. (Department Bulletin 55.) Price, 10 cents.

This bulletin deals with all aspects of balsam fir, its distribution, the forest types in which it occurs, the present stand and cut, its economic importance, especially in relation to the paper-pulp industry, methods and cost of lumbering, life history of the tree, characteristics of the wood, rate of growth and yield, and proper methods of management. Balsam fir is found in commercial quantities in the north-eastern border States from Maine to Minnesota.

Factors Governing the Successful Shipment of Oranges from Florida. By A. V. Stubenrauch, H. J. Ramsey, and Lloyd S. Tenny; assisted by A. W. McKay, B. B. Pratt, C. S. Pomeroy, K. B. Lewis, G. M. Darrow, Margaret Connor, and J. F. Fernald, of the Office of Horticultural and Pomological Investigations. Pp. 50, pls. 15, figs. 26. Contribution from the Bureau of Plant Industry. Mar. 28, 1914. (Department Bulletin 63.) Price, 20 cents.

Report on harvesting, handling, and shipping experiments made on a commercial scale through seven shipping years, showing that decay can be materially lessened by greater care and the avoidance of mechanical injury to the fruit.

Statistics of Sugar in the United States and Its Insular Possessions, 1881-1912. By Frank Andrews, Assistant Chief of the Division of Crop Estimates. Pp. 25. Contribution from the Bureau of Statistics. Mar. 10, 1914. (Department Bulletin 66.) Price, 5 cents.

This bulletin, which indicates the amount and sources of the sugar supply of the United States, is of especial interest in sugar-producing regions; also to persons concerned with problems of food supply.

Tests of Rocky Mountain Woods for Telephone Poles. By Norman de W. Betts and A. L. Heim, Engineers in Forest Products. Pp. 28, figs. 8. Contribution from the Forest Service. (Professional Paper.) Mar. 17, 1914. (Department Bulletin 67.) Price, 5 cents.

This bulletin gives the results of tests on western red cedar, lodgepole pine, and Engelmann spruce poles to determine their suitability for telephone lines. Values are presented for fiber stress at elastic limit, modulus of rupture, stiffness, and modulus of elastic resilience. Of value to lumbermen in the Rocky Mountain and Pacific Coast States and to users of telephone poles.

Cicuta, or Water Hemlock. By C. Dwight Marsh and A. B. Clawson, Physiologists, Drug-Plant and Poisonous-Plant Investigations, Bureau of Plant Industry, and Hadleigh Marsh, Veterinary Inspector, Bureau of Animal Industry. Pp. 27, pls. 4. Contribution from the Bureau of Plant Industry and the Bureau of Animal Industry. (Professional Paper.) Mar. 28, 1914. (Department Bulletin 69.) Price, 10 cents.

This bulletin describes water hemlock and its toxic effect upon animal life when taken into the system; it points out the distinction between it and other unbelliciferous plants, particularly conium, with which it is most likely to be confounded. As the toxic principle is largely confined to the root-stock, the tops and seeds if they become mixed with hay are not a source of danger. The subject is of general interest, as cicuta is found in nearly all parts of the United States.

Raising and Fattening Beef Calves in Alabama. By Dan T. Gray, Formerly Professor of Animal Husbandry, Alabama Polytechnic Institute, and W. F. Ward, Senior Animal Husbandman in Beef Cattle Investigations, Animal Husbandry Division. Pp. 11, pl. 1. Contribution from the Bureau of Animal Industry. Mar. 30, 1914. (Department Bulletin 73.) Price, 5 cents.

This publication is of interest to farmers in the Southern States.

The Potato Quarantine and the American Potato Industry. By W. A. Orton, Pathologist in Charge of Cotton and Truck Disease and Sugar Plant Investigations, and Vice Chairman of the Federal Horticultural Board. Pp. 20, fig. 1. Contribution from the Bureau of Plant Industry and the Federal Horticultural Board. Mar. 31, 1914. (Department Bulletin 81.) Price, 5 cents.

This bulletin tells of the necessity for establishing a quarantine against potatoes from certain countries, gives brief descriptions of the potato diseases that have been imported, indicates some of the agencies by which these diseases have been spread over this country, and gives information that potato growers should have in advance of the planting season. It is intended for general distribution.

Tests of Wooden Barrels. By J. A. Newlin, Engineer in Charge of Timber Tests. Pp. 12, pls. 5, fig. 1. Contribution from the Forest Products Laboratory, Forest Service. (Professional Paper.) Mar. 14, 1914. (Department Bulletin 86.) Price, 5 cents.

This bulletin describes tests that are of special interest to barrel manufacturers and to manufacturers and shippers of dangerous liquids.

A Preliminary Report on the Sugar-Beet Wireworm. By John E. Graf, Entomological Assistant, Truck Crop and Stored Products Insect Investigations. Pp. 68, pls. 23, figs. 9. Feb. 28, 1914. (Bulletin 123, Bureau of Entomology.) Price, 25 cents.

This paper sets forth the manner of injury, the history of the species, and the insects associated with the sugar-beet wireworm in the destruction of the beet roots in different stages of growth, the number of its food plants, its life history and habits, suggestions as to the methods for its control, and other useful data. This is a preliminary report; but so many facts have been learned that it is deemed advisable to publish them at this time, as it will be several years before a complete study of the subject can be made.



- The Papaya in Hawaii. By J. E. Higgins, Horticulturist, and Valentine S. Holt, Assistant Horticulturist. Pp. 44, pls. 10. Mar. 26, 1914. (Bulletin 32, Hawaii Experiment Station.) Price, 15 cents.
- The Red Clay Soil of Porto Rico. By P. L. Gile, Chemist, and C. N. Ageion, Assistant Chemist. Pp. 24, pl. 1. (Bulletin 14, Porto Rico Agricultural Experiment Station.) Price, 5 cents.

FARMERS' BULLETINS.

- A System of Farm Cost Accounting. By C. E. Ladd, Agent, Office of Farm Management. Pp. 15. Contribution from the Bureau of Plant Industry. (In cooperation with the department of farm management, New York State College of Agriculture.) Mar. 4, 1914. (Farmers' Bulletin 572.)

This bulletin is of interest to farmers in all parts of the country who desire to keep accounts and yet have not worked out a system for themselves. Others who are keeping farm accounts, but who are not satisfied with the results will probably find suggestions of value herein. This system has been in use by Prof. Warren of the New York College of Agriculture on his own farm for the last seven years, and its principles are published in his book entitled "Farm Management." For three years the system has been given a fair trial by a number of farmers under immediate supervision of its author working jointly for the United States Department of Agriculture and the New York State College of Agriculture.

- Growing Egyptian Cotton in the Salt River Valley, Arizona. By E. W. Hudson, Assistant, Crop Physiology and Breeding Investigations. Pp. 8. Contribution from the Bureau of Plant Industry. Mar. 14, 1914. (Farmers' Bulletin 577.)

This bulletin describes methods of selecting and preparing the land for, and the irrigating and cultivating of, Egyptian cotton in the Salt River Valley, which have proved successful and are believed to be well suited to that crop in that section. The bulletin is of no special interest to cotton growers in other parts of the country.

- The Agricultural Outlook. Contribution from the Bureau of Statistics (Agricultural Forecast) and Bureau of Plant Industry. Mar. 18, 1914. Pp. 50. (Farmers' Bulletin 581.)

The following subjects are discussed in this bulletin: Corn, world acreage and production, and imports from Argentina—Oats, world acreage and production; imports from Canada—Barley, rye, potatoes, and flax, world acreage and production—Imports of beef from Argentina—Recent developments in colonial production of cotton—Crop-reporting systems and sources of crop information in foreign countries.

- The Agricultural Outlook. Contribution from the Bureau of Statistics (Agricultural Forecasts) and the Bureau of Plant Industry. Mar. 23, 1914. Pp. 22. (Farmers' Bulletin 584.)

Contents: Stocks of grain on farms March 1—Accuracy of estimates of stocks of grain—Shipments of grain out of counties where grown—Preparing seed corn for planting (by C. P. Hartley)—The preparation of seed grain for spring planting (by M. A. Carleton)—Wages of farm labor—Hours of farm hired labor—Trend of prices of farm products—Value per acre of crop production—Special Florida and California crop report.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

- Bulletin of the Mount Weather Observatory, vol. 6, pt. 4. Pp. 107-194, figs. 33. (W. B. No. 526.) Price, 25 cents.
- Monthly Weather Review, vol. 41, No. 12, December, 1913. Pp. 1799-1952, maps 2, charts 7. (W. B. No. 525.) Price, 35 cents; \$4 a year.
- Snow and Ice Bulletins for March 3, 10, 17, 24, 31, 1914. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.
- National Weekly Weather Bulletin No. 3, for March, 1914, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly April-September, Monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

